Amendments to the Claims

This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims

1. (Currently Amended) A method of treating a subject having a cystic fibrosis transmembrane conductance regulator (CFTR) protein-mediated condition or symptom treatable by inhibiting CFTR-mediated ion transport, the method comprising administering to the subject a therapeutically effective amount of a compound of formula (I)(Ic):

$$X_2$$
 X_3
 X_4
 X_3
 X_4
 X_4
 X_1
 X_3
 X_4
 X_4
 X_4
 X_4
 X_5
 X_7
 X_8
 X_8

wherein X_1 , X_2 and X_3 are independently chosen from hydrogen, an organic group, a halo group, a nitro-group, an azo group, a hydroxyl-group and a mercapto group; Y_1 , Y_2 and Y_3 are independently chosen from hydrogen, an organic group, an aliphatic group, a halo group, a nitro group, an azo group, a hydroxyl group and a mercapto group; A_1 and A_2 are independently chosen from oxygen and sulfur, A_3 is chosen from sulfur and selenium; and A_4 comprises one or more earbons or heteroatoms and may be present or absent; or a pharmaceutically acceptable derivative salt thereof, as an individual stereoisomer or a mixture thereof.

- 2. (Original) The method of claim 1, wherein the condition or symptom is associated with aberrantly increased intestinal secretion.
- 3. (Original) The method of claim 2, wherein the condition or symptom is secretory diarrhea.

4. - 7. (Canceled)

- 8. (Currently Amended) The method of claim 71, wherein X_1 is selected from the group consisting of a perfluoroalkyl group and a fluoro group the trifluoromethyl group is located at the 2, 3, or 4 position of the phenyl group to which it is attached.
- 9. (Currently Amended) The method of claim 8, wherein Y_2 is ehosen from alkyl, hydroxyl, carboxyl, nitro, carbonate, carbamate, alkoxy, alkylcarbonyl, and or a halo group.
- 10. (Currently Amended) The method of claim 78, wherein X_{+} is a 3-trifluoromethyl group is located at the 3 position.
- 11. (Currently Amended) The method of claim 6 claim 1, wherein Y_2 is a hydroxyl group.
 - 12. (Original) The method of claim 11, wherein Y_1 is a hydroxyl group.
 - 13. (Original) The method of claim 11, wherein Y_1 is a bromo group.
 - 14. (Original) The method of claim 11, wherein Y₃ is a nitro group.

15. –18. (Canceled)

19. (Currently Amended) The method of claim 1, wherein the compound of formula (1)(Ic) is chosen from:

20. - 43. (Canceled)

44. (Currently Amended) A pharmaceutical composition comprising a pharmaceutically acceptable excipient and a thiazolidinone compound—, wherein the thiazolidinone compound independently chosen from: is 3-[(3-trifluoromethyl)phenyl]-5-[(4nitrophenyl)methylene]-2-thioxo-4-thiazolidinone; 3-[(3-trifluoromethyl)phenyl]-5-[(4oxycarboxyphenyl)methylene]-2-thioxo-4-thiazolidinone; 3-[(3-trifluoromethyl)phenyl]-5-[(4carboxyphenyl)methylene]-2-thioxo-4-thiazolidinone; 3-[(3-trifluoromethyl)phenyl]-5-[(3,4dihydroxyphenyl)methylene]-2-thioxo-4-thiazolidinone; 3-[(3-trifluoromethyl)phenyl]-5-[(3,5dibromo-4-hydroxyphenyl)methylene]-2-thioxo-4-thiazolidinone; and trifluoromethyl)phenyl]-5-[(3-bromo-4-hydroxy-5-nitrophenyl)methylene]-2-thioxo-4thiazolidinone; and at least one of a pharmaceutically acceptable carrier, a pharmaceutically acceptable diluent, _a pharmaceutically acceptable excipient and a pharmaceutically acceptable adjuvant.

- 45. (Original) The composition of claim 44, wherein the composition does not contain detectable dimethyl sulfoxide.
- 46. (Currently Amended) A pharmaceutical composition comprising <u>a</u> <u>pharmaceutically acceptable excipient and a compound of formula (Hc):</u>

$$X_2$$
 X_3
 X_4
 X_3
 X_4
 X_4
 X_1
 X_3
 X_4
 X_5
 X_7
 X_8

$$F_3C$$

$$\begin{array}{c} S \\ Y_1 \\ Y_2 \\ Y_3 \end{array}$$
(Ic)

wherein X_1 , X_2 and X_3 are independently chosen from hydrogen, an organic group, a halo group, a nitro group, an azo group, a hydroxyl group and a mercapto group; Y_1 , Y_2 and Y_3 are independently chosen from hydrogen, an aliphatic group, an organic group, a halo group, a nitro group, an azo group, a hydroxyl group and a mercapto group; A_1 and A_2 are independently chosen from oxygen and sulfur, A_3 is chosen from sulfur and selenium; and A_4 comprises one or more carbons or heteroatoms and may be present or absent; or a pharmaceutically acceptable derivative salt thereof, as an individual stereoisomer or a mixture thereof; A_4 becomprised, however, that when:

1) A_4 is absent, A_1 and A_2 are each oxygen, A_3 is sulfur, one of X_1 , X_2 , and X_3 is trifluoromethyl or chloro in the 4-position and the others of X_1 , X_2 , and X_3 are each hydrogen, one of Y_1 , Y_2 , and Y_3 can not be 4-methylpiperazin-1-yl in the 2-position when the remaining others of Y_1 , Y_2 , and Y_3 are each hydrogen;

- 2) A_4 is absent, A_1 and A_3 are each sulfur, A_2 is oxygen, one of X_1 ; X_2 , and X_3 is earboxyl in the 4-position and the others of X_1 , X_2 , and X_3 are each hydrogen, Y_1 , Y_2 , and Y_3 can not each be hydrogen;
- 3) A_4 is absent, A_1 and A_3 are each sulfur, A_2 is oxygen, one of X_1 ; X_2 , and X_3 is hydroxy in the 2-, 3- or 4-position or ethoxy in the 4-position and the others of X_1 ; X_2 , and X_3 are each hydrogen, one of Y_1 , Y_2 and Y_3 is hydrogen, and another of Y_1 , Y_2 and Y_3 is hydroxy or methoxy in the 4-position, the remaining one of Y_1 , Y_2 and Y_3 can not be methoxy in the 3-position; and
- 4) A_4 is absent, A_1 and A_3 are each sulfur, A_2 is oxygen, one of X_1 ; X_2 , and X_3 is methyl in the 4-position and another of X_1 , X_2 , and X_3 is chloro in the 3-position, one of Y_1 , Y_2 and Y_3 is methoxy in the 4-position, the remaining others of Y_1 , Y_2 and Y_3 can not each be hydrogen;

and at least one of a pharmaceutically acceptable carrier, a pharmaceutically acceptable diluent, and a pharmaceutically acceptable excipient and a pharmaceutically acceptable adjuvant.

47. - 49. (Canceled)

- 50. (Currently Amended) The composition of elaim 47claim 46, wherein Y₂ is ehosen from an alkyl, hydroxyl, carboxyl, nitro, carbonate, carbamate, alkoxy, alkylcarbonyl, and or a halo group.
- 51. (Currently Amended) The composition of elaim 47claim 46, wherein the trifluoromethyl group is located at the 2, 3, or 4 position of the phenyl group to which it is attached X₁ is a 3-trifluoromethyl group.
- 52. (Currently Amended) The composition of elaim 47 claim 50, wherein Y₂ is a hydroxyl group.
 - 53. (Original) The composition of claim 52, wherein Y_1 is a hydroxyl group.

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- 54. (Original) The composition of claim 52, wherein Y₁ is a bromo group.
- 55. (Original) The composition of claim 54, wherein Y_3 is a nitro group.
- 56. 58. (Canceled)
- 59. (Currently Amended) The composition of elaim 57 claim 51, wherein X_+ is a 3-trifluoromethyl group is located at the 3 position.
- 60. (Original) The composition of claim 46, wherein the composition does not contain detectable dimethyl sulfoxide.
 - 61. 64. (Canceled)